Author Index—Volume 46

Berry, B.J.L., 1, 289
Bhargava, S.C., 279
Bobrowski, P., 197
Bretschneider, S., 197

Dator, J., 59
Debecker, A., 153
de V. Steyn, H., 11
de Wet, G., 11

Franses, P.H., 45

Ghosh, S., 269

Hansen, P.A., 125
Harms, A.A., 213
Herbig, P.A., 71

Kim, D.-J., 51
Kim, H., 1, 289
Kim, H.-M., 289
Knox Lovell, C.A., 139
Kumbhakar, S.C., 269

Land, K.C., 139

Marchetti, C., 189
McGuckin, J.T., 269
Modis, T., 153

Palumbo, F., 71
Papanikos, G.T., 17

Ramanathan, K., 221
Rowe, F., 29

Saraph, A., 259
Serin, G., 125
Sharma, P., 279
Slesser, M., 259
Suttmeier, R.P., 103

Teitel, S., 175
Thore, S., 139

TECHNOLOGICAL FORECASTING AND SOCIAL CHANGE 46, 296–298 (1994)

Subject Index—Volume 46

Adaptibility, of industrial structure, 125
Adoption of new technology
  culture effects on, 71
  interorganizational relationships and, 197
  by U.S. dairy industry, 269
Aggregate price level, impacts of technical progress and, 17
Aggression, adoption of innovation and, 91
American political leadership, generations of, 5
Artifact market penetration, 213
Authority
  adoption of innovation and, 89
  risk management in China and, 103
Authority innovation-decisions, 75
Automation push, expansion of information workforce and, 51
Auxiliary regression, in selecting between Gompertz and logistic trend curves, 45

Banking, data communications networks and, 29
Black box, technology, 221

Canonization, of saints, 189
Capitalism, productive efficiency under, 139
Catholic church, millenarian cycles in dynamics of, 189
Chance-constrained data envelopment analysis, productive efficiency and, 139
China, risk management in, 103
Civil War, leadership generations and, 1
Cohort generations, national leadership shares of successive, 1
Collective innovation-decisions, 75
Commercial banks, French, data communications networks and, 29
Companies, adaptibility of, 125
Competitive behavior
  adoption of innovation and, 91
  commercial banks and, 29
Country size, economic development and, 175
Crude productivity, competitive behavior and, 29
Culture
  adoption process and, 71
  risk management in China and, 103

Dairy industry, U.S., adoption of new technology by, 269
Dancing judicial Zen masters, 59
Data network productivity, competitive behavior and, 29
Denmark, material adaptation and, 125

East European planned economies, productive efficiency under, 139
Economic engines, 259
Efficiency, competitive behavior and, 29
Egalitarianism, adoption of innovation and, 89
Employment, impacts of technical progress and, 17
Entry-exit dynamics, market penetration by, 213
Environmental problems, risk management in China and, 103
Equality, adoption of innovation and, 89
External technology transfer agents, 197

Faith, intensity of, 189
Femininity, adoption of innovation and, 91
Flexible diffusion models, 279
Flood control, risk management in China and, 103
France, commercial banks in, 29

General Assembly of the World Future Society, 59
Generations, leadership, 1
Globalization debate, 85
Gompertz curve, logistical trend curve and, 45
Governance, innovation and, 75
Government
  impacts of technical progress and, 17
  risk management in China and, 103
Great Depression, leadership generations and, 1

Hierarchy, adoption of innovation and, 89
Historical forces, risk management in China and, 103
Humanware, 221

Industrial development, rapid, risk management in China and, 103
Industrial structure, material development and, 125
Inefficiency, adoption of new technologies and, 269
Information technology innovation, structural change of workforce and, 51
Information technology productivity paradox,

explanation of, 29
Information workforce, expansion of, 51
Infoware, 221
Innovation diffusion
adoption of innovation and, 71
interorganizational relationships and, 197
long waves and, 289
model of, 279
Innovation pull, expansion of information workforce and, 51
Innovation theory, material adaptibility and, 125
Institutional strategies, risk management in China and, 103
Interorganizational relationships, internal and external, adoption of new technology and, 197

Japan, innovative adoption behavior in, 71
Judicial foresight, 59

Kondratiev peaks, innovation difusion and, 289
Kuznets cycle/Kondratiev wave rhythmicity, leadership generations and, 1

Labor
innovation and, 79
reallocation of, 51
Language bias effect, economic development and, 175
Leadership generations, long-wave macrohistory of, 1
Learning by doing, 125
Learning processes, industrial policy and, 134
Logistical trend curve, Gompertz curve and, 45
Long-wave theory
generational theory and, 1
innovation diffusion and, 289
Low-order reductions, market penetration by entry-exit dynamics and, 213

Macroeconomic impacts, of endogenous technical progress, 17
Manufacturing technology, polytrophic components of, 221
Market penetration, by technological artifacts, 213
Market saturation, 279, 289
Market uncertainties, resource allocation decisions and, 139
Masculinity, adoption of innovation and, 91
Material development, industrial adaptibility and, 125
Millenarian cycles, in Catholic church dynamics, 189

Natural phenomena, risk management in China and, 103
Natures tax, on activity, 259
New product diffusion, 279
New York State Energy Research and Development Authority, 197
Non-homogeneous, non-uniform influence model, of innovation diffusion, 279

Organizational innovation, data network productivity and, 29
Orgaware, 221
Output, impacts of technical progress and, 17

Per capita income, economic development and, 175
Perfect competitive markets macroeconomic model, with endogenous and exogenous technical changes, 17
Policy, innovation versus, 80
Policy leverages, 259
Polytrophism, 221
Population size, economic development and, 175
Power, adoption of innovation and, 89
Prices
impacts of technical progress and, 17
long wave of, 289
Probability, of organizational adoption of new technologies, 197
Productive efficiency, under capitalism and state socialism, 139
Productivity, competitive behavior and, 29
Product systems hierarchy, technological limits and, 11

Quasitechnological limits, technological limits and, 11

Rational expectations, impacts of technical progress and, 17
Raw material suppliers, adaptibility of industrial structure and, 125
Regress, technological, 17
Religion, as cultural trait, 189
Research and development expenditures, economic development and, 175
Resource allocation decisions, 139
Risk, acceptance or avoidance of, 90

Risk attitude, adoption of new technologies and, 269
Risk transition, in China, 103

Sadi Carnot, 259
Saints, number of, 189
Scientific publications, economic development and, 175
S-curve logistic fits, determination of uncertainties in, 153
Servants of Jahvé, 189
Social construction, risk management in China and, 103
Social history, seasons of, 2
Social phenomena, risk management in China and, 103
Society
  adoption of technological innovations within, 71
  future role of technology in, 11
Stability thesis, adaptibility of industrial structure and, 128
Stagflationary phenomena, technical regress and, 17
State socialism, productive efficiency under, 139
Status, adoption of innovation and, 89
Stochastic frontier approach, technical inefficiency and, 269
System hierarchy, limits on higher levels in, 11
Systems engineering, technology analysis and, 11

Technical efficiency, adoption of new technologies and, 269
Technical progress, impacts of, 17
Technological activity, scientific activity and, 175
Technological artifacts, market penetration by, 213
Technological hazards, risk management in China and, 103
Technological limits, product systems hierarchy and, 11
Technological restructuring, onset of, 289
Technological uncertainties, resource allocation decisions and, 139
Technology analysis, systems engineering and, 11
Technoware, 221
Traditional sector, reallocation of labor from to information sector, 51
Two-sector model, with nonhomothetic preference, 51

UNCED forum, 259
Uncertainties
  resource allocation decisions and, 139
  S-curve logistic fits and, 153
Uncertainty avoidance, 90
United States
  adoption behavior in, 71
  dairy industry in, 269
  innovation diffusion in, 289
  judicial foresight and, 59
User-producer relations, 125

Value-added per input productivity, competitive behavior and, 29
Value-productivity, competitive behavior and, 29

Weltanschauung, Christian, 189
West European market economies, productive efficiency under, 139
What-if games, 153